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Application No.: 10/712590

Case No.: 59390US002

Amendments to the Claims:

12/07 The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims

- 1. (Previously Presented) A method of making a crosslinked polymer comprising the steps of:
- a) providing a highly fluorinated fluoropolymer comprising: a backbone derived in part from tetrafluoroethylene monomer, first pendent groups which include a group according to the formula -SO2X, where X is F, Cl, Br, OH or O-M+, where M+ is a monovalent cation, and second pendent groups which include Br; and
- b) exposing said fluoropolymer to electron beam radiation so as to result in the formation of crosslinks.
- 2. (Original) The method according to claim 1 wherein said method additionally comprises, prior to said step b), the step of:
- c) forming said fluoropolymer into a membrane.
- 3. (Original) The method according to claim 1 wherein said membrane has a thickness of 90 microns or less.
- 4. (Original) The method according to claim 1 wherein said step of exposing said fluoropolymer to electron beam radiation comprises exposing said fluoropolymer to greater than 1 Mrad of electron beam radiation.
- 5. (Original) The method according to claim 1 wherein said step of exposing said fluoropolymer to electron beam radiation comprises exposing said fluoropolymer to greater than 3 Mrad of electron beam radiation.
- 6. (Original) The method according to claim 1 wherein said step of exposing said fluoropolymer to electron beam radiation comprises exposing said fluoropolymer to greater than 15 Mrad of electron beam radiation.

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7. (Original) The method according to claim 1 wherein said highly fluorinated fluoropolymer is perfluorinated.

- 8. (Original) The method according to claim 1 wherein said pendent groups are according to the formula R1 S02X, where R1 is a branched or unbranched perfluoroalkyl or perfluoroether group comprising 1-15 carbon atoms and 0-4 oxygen atoms, and where X is F, Cl, Br, OH or O-M+, where M+ is a monovalent cation.
- 9. (Original) The method according to claim 1 wherein said pendent groups are groups according to the formula -O-(CF2)4-SO2X, where X is F, Cl, Br, OH or O-M+, where M+ is a monovalent cation.
- 10. (Original) The method according to claim 1 wherein said pendent groups are groups according to the formula -O-(CF2)4-SO3H.

## 11.-12. (Canceled)

- 13. (Original) The method according to claim 2 wherein said pendent groups are according to the formula R1 S02X, where R1 is a branched or unbranched perfluoroalkyl or perfluoroether group comprising 1-15 carbon atoms and 0-4 oxygen atoms, and where X is F, Cl, Br, OH or O-M+, where M+ is a monovalent cation.
- 14. (Original) The method according to claim 2 wherein said pendent groups are groups according to the formula -O-(CF2)4-SO2X, where X is F, Cl, Br, OH or O-M+, where M+ is a monovalent cation.
- 15. (Original) The method according to claim 2 wherein said pendent groups are groups according to the formula -O-(CF2)4-SO3H.

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## 16.-17. (Canceled)

- 18. (Original) The method according to claim 3 wherein said pendent groups are according to the formula R1 S02X, where R1 is a branched or unbranched perfluoroalkyl or perfluoroether group comprising 1-15 carbon atoms and 0-4 oxygen atoms, and where X is F, Cl, Br, OH or O-M+, where M+ is a monovalent cation.
- 19. (Original) The method according to claim 3 wherein said pendent groups are groups according to the formula -O-(CF2)4-SO2X, where X is F, Cl, Br, OH or O-M+, where M+ is a monovalent cation.
- 20. (Original) The method according to claim 3 wherein said pendent groups are groups according to the formula -O-(CF2)4-SO3H.

## 21.-22. (Canceled)

- 23. (Original) The method according to claim 4 wherein said pendent groups are according to the formula R1 S02X, where R1 is a branched or unbranched perfluoroalkyl or perfluoroether group comprising 1-15 carbon atoms and 0-4 oxygen atoms, and where X is F, Cl, Br, OH or O-M+, where M+ is a monovalent cation.
- 24. (Original) The method according to claim 4 wherein said pendent groups are groups according to the formula -O-(CF2)4-SO2X, where X is F, Cl, Br, OH or O-M+, where M+ is a monovalent cation.
- .25. (Original) The method according to claim 4 wherein said pendent groups are groups according to the formula -O-(CF2)4-SO3H.
- 26.-27. (Canceled)

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- 28. (Original) The method according to claim 1 wherein step c) comprises imbibing said fluoropolymer into a porous supporting matrix.
- 29. (Original) The method according to claim 28 wherein said porous supporting matrix is a porous polytetrafluoroethylene web.
- 30.-58. (Canceled)